

# Work Order ID 51702



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August 28, 2009 6:50:39 AM

Item ID: D3978-1

Accept



Setup Start



Revision ID: A

Stop



Item Name: Nut

Start Date: 8/31/09 Start Qty: 5.00



Cust Item ID:

Required Date: 9/11/09 Req'd Qty: 5.00



Customer:

Reference:

Run Start



Approvals: Process Plan: *W*

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D3978

A

100

0.00



Purchasing

Memo

0.00

Purchasing

Issue P/O: 10284  
Purchase Part Number: 91853A031  
Supplier: McMASTER-CARR  
Certificate of conformity is required

*CL 09/08/28 5*

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

*10 9/8/31 (5)*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 51702

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Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

=> 809/09/01



130

Identify as per dwg & Stock Location: 139

0.00



Packaging

Memo

0.00

Packaging

09/07/04 (5)

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

09/09/08  
MF 09-09-04

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

August 28, 2009 6:50:39 AM

Page 1

Work Order ID: 51702



Parent Item: D3978-1RevA



Parent Item Name: Nut



Start Date: 8/31/09

Required Date: 9/11/09

Comments:

Start Qty: 5.00

Required Qty: 5.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
91853A031  Nut		Purchased	No			110	Each	0.0000	5.0000 		PC 9/15/09	(5)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

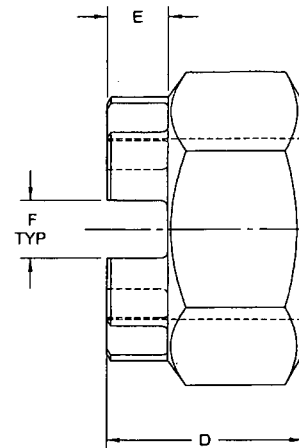
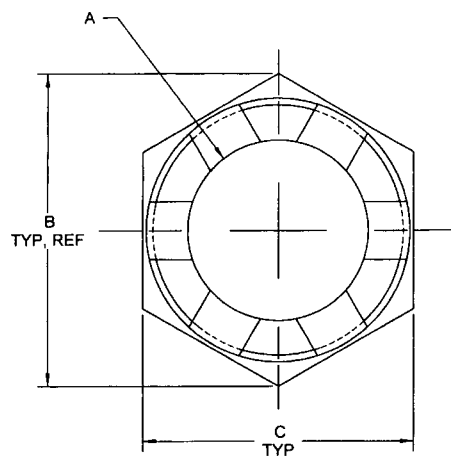
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# **SPECIFICATION CONTROL DRAWING**



C/L 09/08/28  
W/O: 51702

## **D3978-1 NUT (CASTELLATED), UNC**

DART P/N	A	B	C	D	E	F	MATERIAL	WEIGHT (lbs)	SUPPLIER	SUPPLIER P/N
D3978-1	3/8-16 UNC	0.65	0.56	0.41	0.13	0.12	18-8 STAINLESS STEEL	0.02	McMASTER-CARR	91853A031

**RELEASED**  
*09/07/13 MB*

- NOTES:**
- 1) MATERIAL: SEE TABLE
  - 2) FINISH: NONE
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: NONE
  - 7) WEIGHT: SEE TABLE

A	NEW ISSUE	MB	09.07.13
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. <b>D3978</b>	REV. A SHEET 1 OF 1
TITLE <b>NUT (CASTELLATED), UNC</b>	SCALE NTS
<small>COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

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Aurora OH 44202  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
PO10284

McMaster-Carr Number  
1654247-01

Page 1 of 1

08/28/2009

Line	Description	Ordered	Shipped
3	92198A672 18-8 Stainless Steel Hex Head Cap Screw, 7/16"-14 Thread, 5" Length, Packs of 1	100 Packs	100
2	91525A120 Type 316 Stainless Steel Large-Diameter Flat Washer, 1/4" Screw Size, 1" OD, .04"-.06" Thick, Packs of 25	8 Packs	8
5	91853A031 18-8 Stainless Steel Slotted Castle Nut, 3/8"-16 Thread Size, 9/16" Width, 13/32" Overall Height, Packs of 1	5 Packs	5
1	92311A564 Type 18-8 Stainless Steel Cup Point Socket Set Screw, 1/4"-28 Thread, 1" Length, Packs of 50	4 Packs	4
4	92356A662 18-8 Stainless Steel Round Head Square Neck Carriage Screw, 3/8-16 Thread, 10" Length, Packs of 1	5 Packs	5

A11

2 - 711 - 10	45 - 96	A672	100 PK One EA/PK	3
23 lbs				
2 - 703 - 02	08 - 79	A120	8 PK	2
2 - 700 - 01	10 - 93	A031	5 PK One EA/PK	5
2 - 699 - 04	06 - 67	A564	4 PK	1
2 - 716				4

8 07/09/1

Dart Aerospace Ltd

Assembly  
Area

11

Cycle

28

Shelf

106

Documents

2

EXP

29 lbs  
5 line:

FW1WBP2/  
08/28/2009  
10:48/11:02  
054







Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

\*\*\*PO REPRINT\*\*\*

Purchase Order ID PO10284

Purchase Order Date 8/27/09

PO Print Date 8/28/09

Page Number 2 of 2

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

Contact Name

Vendor Phone 330 995 5500

Vendor Fax 330 995 9600

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency USD

FOB

91853A031

Nut

8/31/09

Yes

5.00

Each

Purolator ground

\$2.9100

\$14.55

Special Instr:

AS PER DWG D3978 REV.A  
B51702  
MCMaster P/N: 91853A031

PO Total:

\$399.71

CERTIFICATE OF CONFORMITY  
REQ'D UPON DELIVERY

PO Instructions: PLEASE ADVISE PRICE \$\$\$\$\$\$

Change Nbr: 2

Change Date: 8/28/09

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable